

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1. (currently amended): A fuel for solid electrolyte type fuel cell having a solid electrolyte film, wherein the fuel includes a liquid organic fuel, and a compound excluding sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film;

wherein the compound is either an organic compound different from the liquid organic fuel or the compound is a strong electrolyte; and

wherein the strong electrolyte is selected from the group consisting of NaCl, KCl, NaNO₃, NH₄NO₃, Na₂SO₄, K₂SO₄, (NH₄)₂SO₄, NaHCO₃ and KHCO₃.

Claim 2. (previously presented): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the organic compound is a non-electrolyte.

Claim 3. (canceled).

Claim 4. (previously presented): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the organic compound is selected from at least one of sugars, alcohols and amines.

Claims 5. (canceled).

Claim 6. (previously presented): The fuel for solid electrolyte fuel cell according to claim 1, wherein the strong electrolyte is chloride, nitrate, or sulfate.

Claim 7. (original): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound has a concentration ranging from 0.1 mmol/L to 5 mol/L.

Claim 8. (original): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound has a concentration ranging from 1 mmol/L to 1 mol/L.

Claim 9. (original): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the fuel has a pH value ranging from 4 to 8.

Claim 10. (original): The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound is electrochemically inert and non-volatile.

Claim 11. (currently amended): A method of using the solid electrolyte type fuel cell comprising a fuel electrode, an oxidizing agent electrode, and a solid electrolyte film positioned in between the fuel electrode and the oxidizing agent electrode; wherein the fuel includes a liquid organic fuel and a compound excluding sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film, which is supplied to the fuel electrode;

wherein the compound is either an organic compound different from the liquid organic fuel or the compound is a strong electrolyte; and

wherein the strong electrolyte is selected from the group consisting of NaCl, KCl, NaNO₃, NH₄NO₃, Na₂SO₄, K₂SO₄, (NH₄)₂SO₄, NaHCO₃ and KHCO₃.

Claim 12. (previously presented): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the organic compound is a non-electrolyte.

Claim 13. (canceled).

Claim 14. (previously presented): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the organic compound is selected from at least one of sugars, alcohols, and amines.

Claims 15. (canceled).

Claim 16. (previously presented): The fuel for solid electrolyte fuel cell according to claim 11, wherein the strong electrolyte is chloride, nitrate, or sulfate.

Claim 17. (original): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound has a concentration ranging from 0.1 mmol/L to 5mol/L.

Claim 18. (original): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound has a concentration ranging from 1 mmol/L to 1mol/L.

Claim 19. (original): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the fuel has a pH value ranging from 4 to 8.

Claim 20. (original): The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound is electrochemically inert and non-volatile.

Claim 21. (previously presented): A solid electrolyte type fuel cell, comprising: a fuel electrode; an oxidizing agent electrode; a solid electrolyte film positioned in between the fuel electrode and the oxidizing agent electrode; and a solid electrolyte type fuel cell that includes a fuel supplied to the fuel electrode, wherein the fuel includes a liquid organic fuel, and a compound excluding sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film;

wherein the compound is either an organic compound different from the liquid organic fuel or the compound is a strong electrolyte; and

wherein the strong electrolyte is selected from the group consisting of NaCl, KCl, NaNO₃, NH₄NO₃, Na₂SO₄, K₂SO₄, (NH₄)₂SO₄, NaHCO₃ and KHCO₃.

Claim 22. (original): The solid electrolyte type fuel cell according to claim 21, further comprising a supplying step for supplying the fuel to the fuel electrode.

Claim 23. (original): The solid electrolyte type fuel cell according to claim 22, further comprising a recycling step for recycling a fuel expelled from the fuel electrode; a concentration adjusting step for adjusting a concentration of the compound, and the liquid organic fuel inside a recycled fuel at the recycling step; and a transporting step for transporting the fuel to the supplying step of which a concentration is adjusted by the concentration adjusting step.

Claim 24. (previously presented): The solid electrolyte type fuel cell according to claim 21, wherein the organic compound is a non-electrolyte.

Claim 25. (canceled).

Claim 26. (previously presented): The solid electrolyte type fuel cell according to claim 21, wherein the organic compound is selected from at least one of sugars, alcohols, and amines.

Claims 27. (canceled).

Claim 28. (previously presented): The fuel for solid electrolyte fuel cell according to claim 21, wherein the strong electrolyte is chloride, nitrate, or sulfate.

Claim 29. (original): The solid electrolyte type fuel cell according to claim 21, wherein the compound has a concentration ranging from 0.1 mmol/L to 5 mol/L.

Claim 30. (original): The solid electrolyte type fuel cell according to claim 29, wherein the compound has a concentration ranging from 1 mmol/L to 1 mol/L.

Claim 31. (original): The solid electrolyte type fuel cell according to claim 21, wherein the fuel has a pH value ranging from 4 to 8.

Claim 32. (original): The solid electrolyte type fuel cell according to claim 21, wherein the compound is electrochemically inert and non-volatile.